

**Solid fuel boiler for
central heating**

STROPUVA

**TECHNICAL PASSPORT
INSTALLATION AND MAINTNCE
INSTRUCTIONS**





Contents

1. TECHNICAL SPECIFICATIONS.....	3
1.1 MAIN TECHNICAL SPECIFICATIONS.....	3
2. STRUCTURE OF BOILER	5
2.1 DESCRIPTION OF BOILER STRUCTURE.....	6
3 PARTS OF BOILER.....	6
3.1 AIR INJECTION COLLECTOR (Figure 2).....	6
3.2 AIR DISTRIBUTOR WITH BURNING CHAMBER STABILIZER	7
3.3 FIRE GRATE (Figure 4).....	8
3.5 DEFELCTORS (Figure 5).....	8
3.5 FLUE RING (Figure 6).....	9
3.6 SAFETY VALVE (1.5 BAR).....	9
4. TRANSPORTING AND STORAGE	10
5. INSTALLATION OF BOILER	10
5.1 FIREFIGHTING REQUIREMENTS	10
5.2 FLUE REQUIREMENTS	10
5.3 REQUIREMENTS FOR CONECTING TO HEATING SYSTEM.....	11
6. DIAGRAM OF HEATING SYSTEM	12
6.1 DESCRIPTION OF DIAGRAM OPERATION (Figure 8).....	13
6.2 diagram of connecting „Stropuva” boiler to other boiler, water heater and floor heating.....	14
6.3 diagram of connecting „Stropuva” boiler to other boiler, water heater, radiators and floor heating.....	15
6.4 diagram of connecting „Stropuva” boiler to other boiler, water heater, radiators	16
7. FIRING OF BOILER AND ADDING FUEL.....	17
7.1 FUEL IN BOILER BURNS MOST EFFICIENTLY	17
7.2 RECOMMENDATIONS FOR FIRING OF UNIVERSAL BOILER	18
7.3 SETTINGS OF DRAFT REGULATOR (Figure 13).....	19
7.4 ASSESMENT OF BOILER OPERATION	19
8. REQUIREMENTS OF SAFETY EQUIPMENT	20
7.5 CLEANING AND MAINTENANCE OF BOILER	20
9. RISK ASSESSMENT	21
9.1 DANGERS OF HEAT	21
9.2 DANGERS OF PRESSURE	22
9.3 POSSIBLE POISONING	22
9.4 REQUIRMENTS FOR CONECTING ELETICAL PART	22
10. ATTACHEMENTS	22
10.1 ELECTRONICAL CONTROLLER	22
10.2 PELLET BURNER.....	24
11. PACKAGE CONTENT	25
12. WARANTY CONDITIONS OF PRODUCT	25
13. WARANTY CERTIFICATE	26



ATTENTION! Before installing and using this boiler please read this instruction carefully. It will help you install it correctly and use it effectively as possible also to prevent possible accidents.

1. TECHNICAL SPECIFICATIONS

Solid fuel water heating boilers "Stropuva" (further on – boiler) are designed for heating of premises with central heating system, radiators, boiler for heating of water for household or floor coil-pipe or heater or all the mentioned. System can have natural or forced circulation. System can use open or closed system. Boiler is sold with draft regulator, which is patented by our company.

"STROPUVA" produces three types of boilers:

- For firewood (firewood);
- "U" universal (firewood, coal, peat and sawdust briquettes, pellets, wood chips);
- "BIO" (firewood, sawdust briquettes, pellets, wood chips);

and four different capacities 7 kW; 10kW; 20 kW; 40 kW. Boilers "STROPUVA" can be used to heat premises with from 20 to 400 m² of heated space.

1.1 MAIN TECHNICAL SPECIFICATIONS

Used fuel: firewood, wood residues, sawdust briquettes, peat briquettes, coal and pellets.
Recommended dampness of fuel up to 30 %

Model of boiler	S7	S10	S20	S40	S7 BIO	S10 BIO	S20 BIO	S40 BIO	S10 U	S20 U	S40 U
Power (kW) *	7	10	20	40	7	10	20	40	10	20	40
Heated space (m ²) **	20-70	50-100	100-200	200-400	20-70	50-100	100-200	200-400	50-100	100-200	200-400
Fuel capacity (dm ³)	90	150	210	360	90	150	210	360	135	230	320
Maximum amount of firewood (kg)	15	25	50	80	15	25	50	80	25	50	80
Maximum amount of pellets (kg)	-	-	-	-	50	80	130	220	80	130	220
Maximum amount of briquettes (kg)	-	-	-	-	20	30	60	100	30	60	100
Maximum amount of coal(kg)	-	-	-	-	-	-	-	-	75	130	220
Duration of burn with one load of firewood, h. Min. mode. (according to laboratory tests) Max. mode. ***	28 5,6	31,5 6,1	31,5 6,1	31,5 6,1	28 5,6	31,5 6,1	31,5 6,1	31,5 6,1	31,5 6,1	31,5 6,1	31,5 6,1
Duration of burn with one load of briquettes, h. Min. mode. (according to laboratory tests) Max. mode. ***	-	-	-	-	50 10	72 14	72 14	72 14	72 14	72 14	72 14



Model of boiler	S7	S10	S20	S40	S7 BIO	S10 BIO	S20 BIO	S40 BIO	S10 U	S20 U	S40 U
Duration of burn with one load of pellets, h. Min. mode. (according to laboratory tests) Max. mode. ***	-	-	-	-	72 14	96 24	96 24	96 24	96 24	96 24	96 24
Duration of burn with one load of coal, h. Min. mode. (according to laboratory tests) Max. mode. ***	-	-	-	-	-	-	-	-	130 32	130 32	130 27
Length of firewood (cm)	35	35	45	55	35	35	45	55	35	45	55
Water amount in boiler (l)	15	22	40	52	15	22	40	52	22	40	52
Efficiency (%)	86,3	86,3	86,3	86,3	86,3	86,3	86,3	86,3	86,8	86,8	86,8
Installed pressure protection valve (bar)	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Flue draft (Pa)	10÷20	10÷20	10÷20	10÷20	10÷20	10÷20	10÷20	10÷20	10÷20	10÷20	10÷20
Flow of heated water max. (l/h)	200	250	500	1000	200	250	500	1000	250	500	1000
Water temperature inside of boiler (°C)	85	85	85	85	85	85	85	85	85	85	85
Minimum width of flue opening (cm ²)	150	200	250	330	150	200	250	330	200	250	330
Diameter of flue (mm)	160	180	180	200	160	180	180	200	180	180	200
Distance from the bottom of boiler to flue (mm)	991	1413,5	1550	1549	991	1413,5	1550	1549	1494	1673,5	1664
Dimensions, (mm) h d			(1900)	(1900)			(1900)	(1900)		(1900)	(1900)
	1330	1900	2100	2100	1330	1900	2100	2100	1900	2100	2100
	450	450	560	680	450	450	560	680	450	560	680
Weight (kg)	100	185	231	315	100	185	231	315	196	246	333

*Power depends on quality of fuel. Power depends on time: at the beginning of burning power output is higher than indicated in a table, boiler puts out the smoke that is hotter than 300 °C, therefore raisin residues burn out, flue gets warmed up and draft increases (in some models, direct channel to flue is opened). While fuel burns, power of boiler decreases, because the surface of heat dissipation increases and draft decreases, but when a house becomes warm the power is sufficient and additional valve is opened in order to further decrease the power of boiler.

**Power of boiler is selected according to heated space. For example if in Stropava S20 solid fuel boiler built in 200m² building one fuel load burns 24 hours than one load of firewood in Stropava S40 solid fuel boiler burns almost for 48 hours (35-40 hours). Solid fuel boiler Stropava S10 could be used, but warming up of building would take longer and fuel load would need to be added 2-3 times in 24 hours.

***Duration of burn of one load depends on the quality of fuel, inside and outside temperature, thermal resistance, boiler power, adherence to recommendations of user manual (boiler installation, flow of heated water, maintenance of water temperature).

2. STRUCTURE OF BOILER

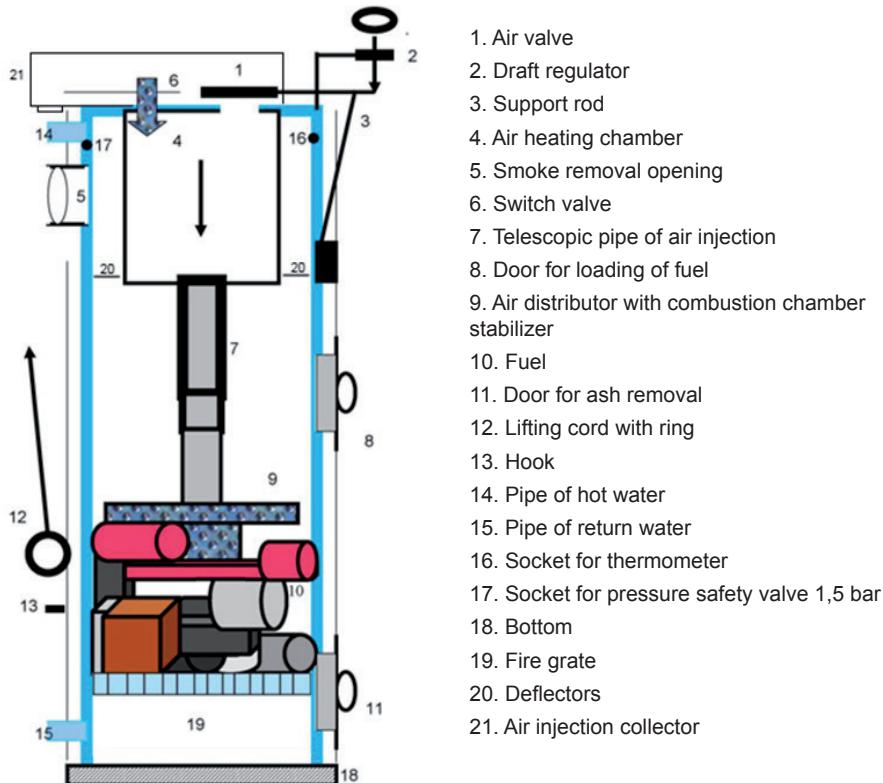


Figure 1

ATTENTION! It is forbidden to change the construction of boiler.

2.1 DESCRIPTION OF BOILER STRUCTURE

Boiler is cylinder made of steel, enveloped in a cylinder of steel of bigger diameter and this whole construction is thermally insulated. Heated water resides between these two cylinders. At the front part of boiler there is draft regulator (2) (more information in 7.3). Construction has openings for loading of fuel (8) and removal of ashes (11) as well as flue for smoke removal (5). Also there are openings for water supply pipe (14 – 15), thermometer (16) and pressure safety valve (17). At the top part of combustion there is air pre-heating chamber (4) chamber for enhancement of burn quality and heat transfer. Telescopic air supply pipe (7) for attaching air distributor and combustion chamber stabilizer, fits into this chamber (9).

"U" boiler is designed for peat briquettes or coal; it has switching valve (6) and is supplied with fire grate (19) and air injection collector (21).

"BIO" boiler is designed for firewood, pellets, and sawdust briquettes or wood chips. It is supplied with fire grate (19) and air injection collector (21).

At the upper part of chamber there is opening for air and air valve (1). On the right side of the boiler, in front of the door, there is a cord and ring (12) for lifting of air supply mechanism and fixation hook (13).

Purpose of air distributor with stabilizer of combustion chamber (9) is to distribute air correctly into generation zones, which are under and besides the air distributor, also in burning zones. Air distributor with combustion chamber stabilizer (9) rests on firewood which is on the sides and is not reaching high temperatures.

Distributor with stabilizer of combustion chamber (9) shouldn't be moved during the burning: if air distributor is lifted and lowered again, it rotates and falls deep into point of burning, than boiler operates inefficiently and the lifespan of its parts is shortened.

3 PARTS OF BOILER

3.1 AIR INJECTION COLLECTOR (Figure 2)

With pellets, briquettes, damp firewood or other wood fuel and its residues we recommend to use air injection collector. Air injection collector is mandatory when burning coal and peat. "U" and "BIO" models come with air injection collector.

Air injection collector is plugged into electrical network after igniting the boiler and closing the door.



Figure 2

3.2 AIR DISTRIBUTOR WITH BURNING CHAMBER STABILIZER (Figure 3)

Burning chamber stabilizer is mounted (fig. 3), on the smallest part of telescopic air supply pipe (7) (fig. 1), it is integral in new boilers. We also developed units for repairs that consist of two parts. If telescopic air supply pipe (7) (fig. 1) has three holes, then stabilizer is locked in third hole with a pin, if it has only one hole, additional hole must be drilled 55mm from the existing hole. After mounting the stabilizer, air distributor can be mounted (fig. 3). When burning pellets, small firewood, distributor must be mounted on middle hole, so that space between the end of air supply pipe (7) (fig. 1) and distributor would be reduced to 5 – 7 mm.

A) We recommend using distributor with combustion chamber stabilizer (fig. 3) when burning firewood, briquettes. This burner is included with firewood boilers.

*Developer retains the right to alter and improve the construction of air distributor.

B) We recommend using distributor with combustion chamber stabilizer (fig. 3) when burning firewood, briquettes and pellets. We also recommend using air injection collector (fig. 2) with this burner. This distributor is used with "U" and "BIO" boilers.

*Developer retains the right to alter and improve the construction of air distributor.

C) We recommend using distributor with combustion chamber stabilizer (fig. 3) when burning peat and coal. We also recommend using air injection collector (fig. 2) with this burner. This distributor is used with "U" boilers.

*Developer retains the right to alter and improve the construction of air distributor.

When fuel burns, ash gather under air distributor with combustion chamber stabilizer (fig. 3), but it does not obstruct the burn, on the contrary – it protects the part from heat. **Do not lift air distributor with combustion chamber stabilizer (fig. 3) when it is not necessarily needed, this way you will increase its lifespan!!!**

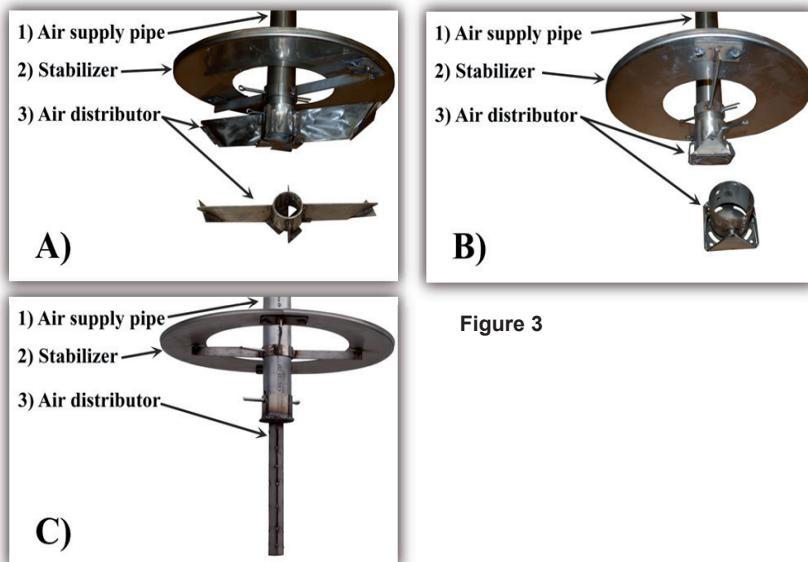


Figure 3

3.3 FIRE GRATE (figure 4)

Use fire grate (19) (fig. 1); (fig. 4), when burning pellets, coal, peat and sawdust briquettes. After opening the bottom door (11) (fig. 1), it needs to be hanged on hooks at the bottom of boiler. You will find fire grate (19) (fig. 1); (fig. 4) inserted, after you open the bottom door for ash removal (11) (fig. 1). In "U" boiler this part is used to get additional air inside through the channel at the bottom of boiler, which is needed when burning coal and peat briquettes. In "BIO" boiler it is needed to completely burn formed cinder. Put the fire grate (19) (fig. 1); (fig. 4), on the bottom of universal and "BIO" boiler when burning wood. This part is included with "U" and "BIO" solid fuel boilers "Stropava".

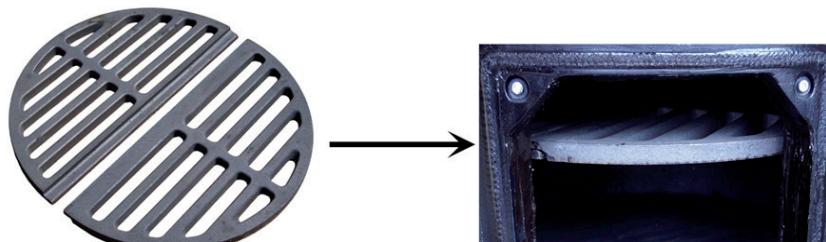


Figure 4

3.5 DEFELCTORS (figure 5)

Deflectors (crescent) 2 pcs. (fig. 5) are designed to increase the efficiency of boiler. After mounting the deflectors (20) (fig. 1) we recommend putting it in through upper door, for loading fuel, (8) (fig. 1) on the bottom edge of inner air preheating tank.

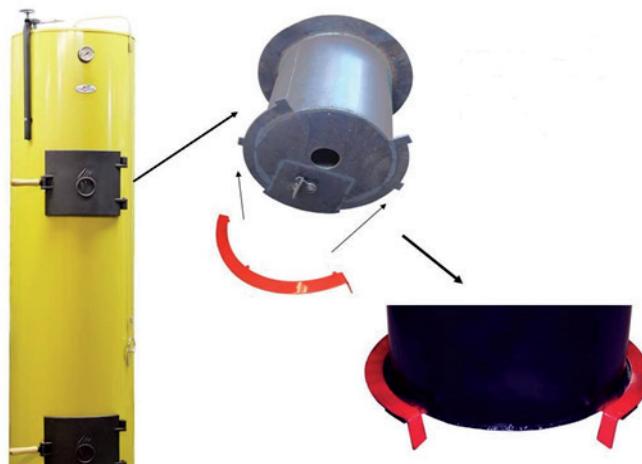


Figure 5

3.5 FLUE RING (figure 6)

If there is excessive draft in boiler, use valve (flue ring) (fig. 6) to add additional air from boiler room. Flue ring is on the opening used for boiler smoke removal (5) (fig. 1). Flue hole must be open in order to reduce draft and vibration. In order to increase draft – use flue ring (fig. 6) to close the hole.



Figure 6

3.6 SAFETY VALVE (1.5 BAR)

Valve is designed to protect solid fuel boilers from overheating. Valve opens when pressure of water reaches dangerous value, then hot water is released into sewerage, at the same time, cold water from water supply is added through automatic system.

Valve must be mounted at the upper part of boiler (17) (fig. 1) near the flue (see 6.2; 6.3; 6.4; in connection diagrams No. 23). Cold water from water supply system is connected to system of automatic water addition, which is connected to water return line of heating system, near the boiler.



Figure 7

ATTENTION! Operation of safety valve must be inspected once a month.



4. TRANSPORTING AND STORAGE

Unattached boiler can be transported only in horizontal position. If weather is good, it can be transported in an open vehicle; otherwise it needs to be transported with covered vehicle. If boiler is transported in vertical position, additional safety measures must be used for protecting boiler from overturning and scratching. Boilers can be stored in dry premises, free of chemically active substances, vapor.

5. INSTALLATION OF BOILER

Boiler can be installed in premises that meet the governmental requirements for boiler rooms.

Boiler installation room must be at least 215 cm high and have concrete floor (at least in a place of boiler installation). Room must be isolated from heated living rooms and have vertical ventilation channel and window or opening in outer wall, so that air from the outside could easily get into boiler or ventilation channel.

Flue inside can be inspected using a mirror trough flue cleaning opening. Flue must be clean. It must not have openings into hollow layers or to nearby enclosures. It must be inspected if flue has no openings on the outside, which would allow parasitic air inside, this air cools the flue and reduces its draft. All openings and place of boiler connection with flue must be sealed. If there are inner openings of flue to the layers or to nearby shafts which cannot be sealed, oval or cylindrical liner of stainless steel will have to be used. (Rectangular liners are not as reliable because openings appear at the connections. These openings are caused by temperature changes.)

Boiler is placed directly on concrete floor. Some parts of boiler can get deformed during transportation, therefore after installation with flue and after closing all the doors and opening dedicated for cleaning of flue, check the operation of top valve, check if it's uniformly fits with air intake surface. Also check the tightness of door by using flame of candle or match.

5.1 FIREFIGHTING REQUIREMENTS

Boiler must be placed on nonflammable surface.

Metal connection of boiler near the chimney must be made out of metal that is no thinner than 1,5 mm and covered with heat insulation.

Condition of flue must be checked once a month (by visually inspecting it with mirror through cleaning opening), it must be cleaned if needed, because accumulated resins and soot can catch fire in flue, release sparks and cause fire hazard, overheat and damage the liner. When using original flues (made of stainless steel and ceramic) user instructions must be understood well and requirements must be met, especially for periodic maintenance. After cleaning the flue, horizontal flue pipe, which is between boiler and flue, must be cleaned as well.

5.2 FLUE REQUIREMENTS

Diameter of flue opening can be 10 percent smaller as shown in main technical specifications, but not larger. Boiler needs separate flue, no other equipment can be connected to it. Flue pipe from boiler to flue must be horizontal, not longer than 1,5 m and not shorter than 0,20 m, it must be well sealed at connections and covered with heat insulation. Flue pipe and flue



must be cleaned periodically in accordance with mentioned firefighting requirements.

We recommend:

- Install stainless steel liner inside of chimney; correctly installed liner protects the chimney from condensation and moisture;
- Liner should not significantly reduce the diameter of chimney opening;
- Parts of liner must be well connected between each other (using stainless steel rivets);
- Ash collecting device must be installed at the bottom; collecting device must be installed 15-20 cm lower than where flue pipe enters the flue, than it will allow easy access to clean the flue.
- Space between liner and the walls of chimney, must be filled with inflammable heat insulation material, at least at the outer part of chimney. Opening must be hermetically plastered and tin coated at the top while forming a slope (going from the opening towards the edge of chimney).
- In cold lofts, chimney must be insulated using fireproof heat insulation material.

5.3 REQUIREMENTS FOR CONNECTING TO HEATING SYSTEM

Boiler can only be installed by qualified technicians who are aware of all requirements and can guarantee the quality of their work and who study the construction of our boiler before every installation.

We recommend few simple and proven diagrams. We don't recommend building accumulative heat tanks because our boiler is more efficient while working in preservation mode than while charging accumulative tank in max power mode.

Before installing additional elements please read the requirements of manufacturer and act accordingly:

1. Preliminary flow adjustment nuts must be adjusted according to requirements of heating system project while observing the requirements of manufacturer of thermo-valves (if not present than at 1,5 or 1).
2. Do not exceed the temperature of floor heating flow to floor heating elements (manufacturer recommendation 28 -35 °C).
3. When building three-way or four-way mixing valves, circulation pump must be connected to large ring of house heating system. It is recommended to install it on return flow pipe.
4. Don't install boiler and heating elements parallel to tank connected to boiler. (When tank is connected in parallel position, balance valve is needed.)
5. Retain the temperature which is good for good operation of boiler (70 – 85 °C).
6. Observe the requirements of flue liner manufacturers.
7. Flue closing valve must not be installed. To reduce the draft use our other manufacturers' automatic air supply valves.
8. Ensure good ventilation in boiler room.
9. Before every installation of our solid fuel boiler, read technical passport (you may find helpful additions and recommendations).

6. DIAGRAM OF HEATING SYSTEM

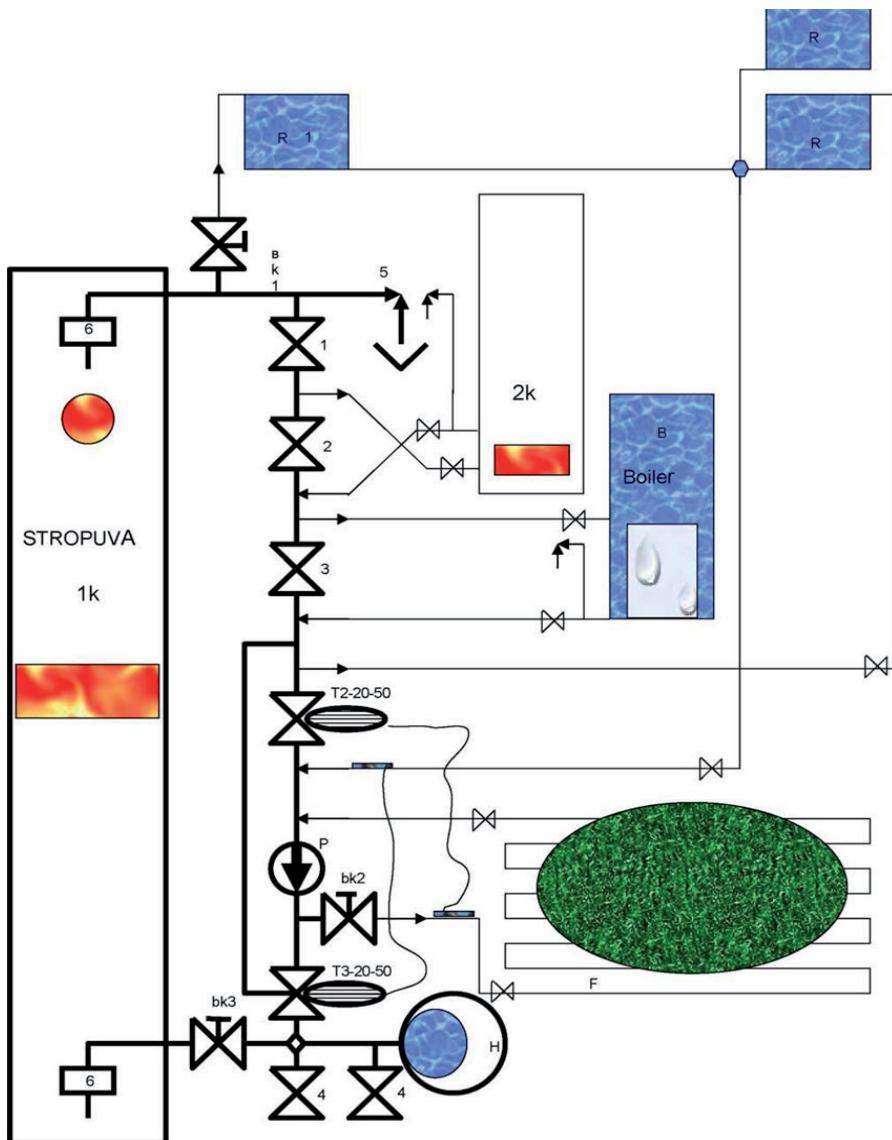


Figure 8



6.1 DESCRIPTION OF DIAGRAM OPERATION (figure 8)

Pump (P) pulls water from heating elements and pushes it through boiler and into heating elements. Through balance tap (bk1) hot water goes to closest radiator which can operate in gravity circulation mode in order to protect the boiler in case of power loss (radiator has no temperature valve).

Hot water further flows through boiler of non-solid fuel 2k (if it is present), which turns on when boiler 1k stops burning or when 1k is turned on using inner automatics and 2k is turned off. If boiler 2k is present in system, valve (2) is shut, if it is not present valve is open.

Hot water further flows through heater of water (B) and valve (3). If inputs of heater are of sufficient diameter, valve (3) is shut – more water is heated when flow goes only through heater.

After heating the household water, termofication water flow to the radiator system and through thermostat valve (T2-20-50), if needed, into floor heating system. Sensor of thermostat valve opens the valve when water that is flowing into floor becomes colder than selected value (around 35 °C) –and closes the valve when flowing water is warmer than selected value.

Thanks to this pump (P) water loudly circulates through coil-pipes (F) of floor heating, also flows to boiler through distribution valve (T-3-20-50), which, when water from radiators is warmer than the selected value (recommended 40 °C), directs part of colder flow to radiator system thanks to the sensor, therefore temperature of premises is stable because even without thermo-valves floor is still protected from overheating. (bk2) and (bk3) are closing valves (not ball taps) or further valves for adjusting the flow, which distributes the flow in such manner that it would be sufficient for floor heating and suitable for boiler. Overall amount of flow depends on circulation pump, but it also can be adjusted by changing the speed of pump. If system has no floor heating, you should cover T2 with a cap – thermostat is not necessary. In summer, when boiler is turned on for heating the water tank, radiators and floor collectors must be closed and T2 must be opened by unscrewing the cap or removing the thermostat.

10 kW boiler can be paired with 25 – 60 W circulation pump.

20 kW boiler – with 40 – 80W

40 Kw boiler – with 50 – 100 W

(bk – 1) – balance valve of safety gravity operated radiator –flow must be adjusted to such value that return pipe of radiator would be 40 °C colder than supplied.

(6) – separable connectors – after they are loosened node can be rotated to other side.

6.2 diagram of connecting „Stropuva” boiler to other boiler, water heater and floor heating

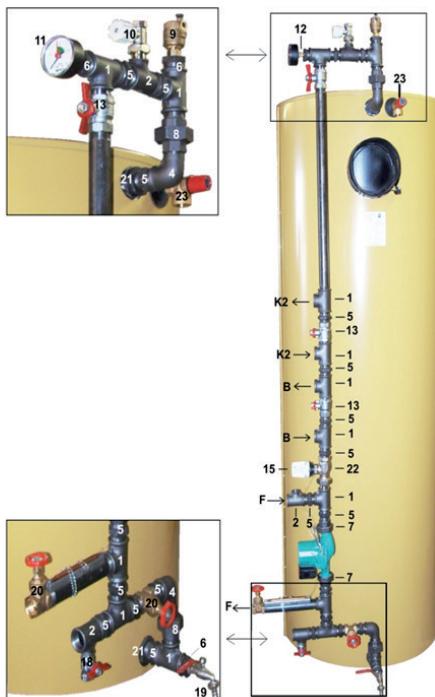


Figure 9

1. Triple D25	- 10 pcs.	19. Valve for release 1/2	- 1 pcs.
2. Triple D25 x D15	- 3 pcs.	20. Disc valve made from brass V/V 1"	- 2 pcs.
4. Elbow D25 V/i	- 2 pcs.	21. Adapter D32 x D25	- 2 pcs.
5. Nipple D25	- 15 pcs.	22. Valve thermostat	- 1 pcs.
6. Adapter D25 x D15	- 3 pcs.	23. Valve 1,5 bar	- 1 pcs.
7. Circulation pump installation kit D25 - 1 pcs.			
8. Separable connection D25 V/i	- 2 pcs.	F - to/out of floor heating	
9. Automatic bleeding device	- 1 pcs.	B - to/out of water tank	
10. Balance valve D25 V/i	- 1 pcs.	K2 - to/out of other boilers	
11. Horizontal monometer 1/4"	- 1 pcs.		
12. Adapter D15 x 1/4"	- 1 pcs.		
13. Ball valve V/i 1"	- 3 pcs.		
14. Circulation pump	- 1 pcs.		
15. Thermostat head 20 - 50 °C	- 1 pcs.		
18. Valve for filling up i/i 1/2"	- 1 pcs.		

For boilers S7, S10, S20, S7 BIO, S20 BIO and S10U, S20U, nodes are assembled from parts D 20. For boilers S40, S40 BIO and S40U node is assembled from parts D25.

6.3 diagram of connecting „Stropuva” boiler to other boiler, water heater, radiators and floor heating

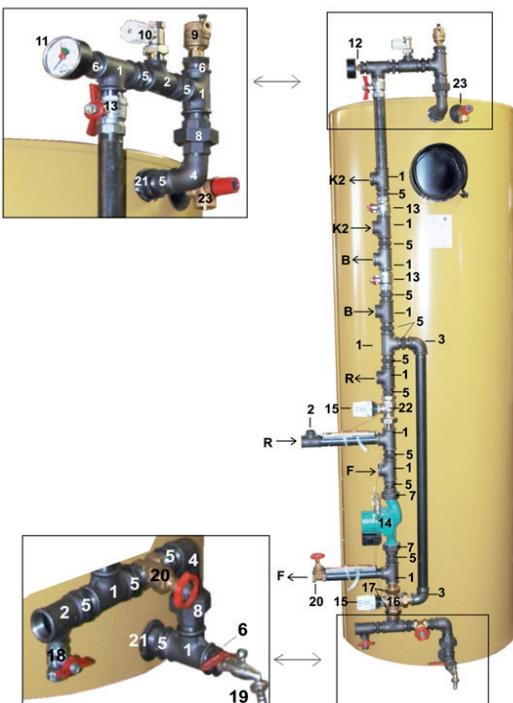


Figure 10

- | | | | |
|--|-----------|---|----------|
| 1. Triple D25 | - 13 pcs. | 15. Thermostat head 20 - 50 °C | - 2 pcs. |
| 2. Triple D25 x D15 | - 3 pcs. | 16. Valve three directional for flow distribution | - 1 pcs. |
| 3. Elbow D25 V/V | - 2 pcs. | 17. Threaded tip DN2 25 | - 3 pcs. |
| 4. Elbow D25 V/i | - 2 pcs. | 18. Valve for filling i/i 1/2" | - 1 pcs. |
| 5. Nipple D25 | - 17 pcs. | 19. Valve for release 1/2" | - 1 pcs. |
| 6. Adapter D25 x D15 | - 3 pcs. | 20. Disc valve made from brass V/V 1" | - 2 pcs. |
| 7. Circulation pump installation kit D25 | - 1 pcs. | 21. Adapter D32 x D25 | - 2 pcs. |
| 8. Separable connection D25 V/i | - 2 pcs. | 22. Valve thermostat | - 1 pcs. |
| 9. Automatic bleeding device | - 1 pcs. | 23. Valve 1,5 bar | - 1 pcs. |
| 10. Balance valve D25 V/i | - 1 pcs. | F - to/out of floor heating | |
| 11. Horizontal monometer 1/4" | - 1 pcs. | B - to/out of water tank | |
| 12. Adapter D15 x 1/4" | - 1 pcs. | K2 - to/out of other boilers | |
| 13. Ball valve V/i 1" | - 3 pcs. | R - to/out of radiator | |
| 14. Circulation pump | - 1 pcs. | | |

For boilers S7, S10, S20, S7 BIO, S10 BIO, S20 BIO and S10U, S20U nodes are assembled from parts D 20. For boilers S40, S40 BIO and S40U node is assembled from D25.

6.4 diagram of connecting „Stropuva” boiler to other boiler, water heater, radiators

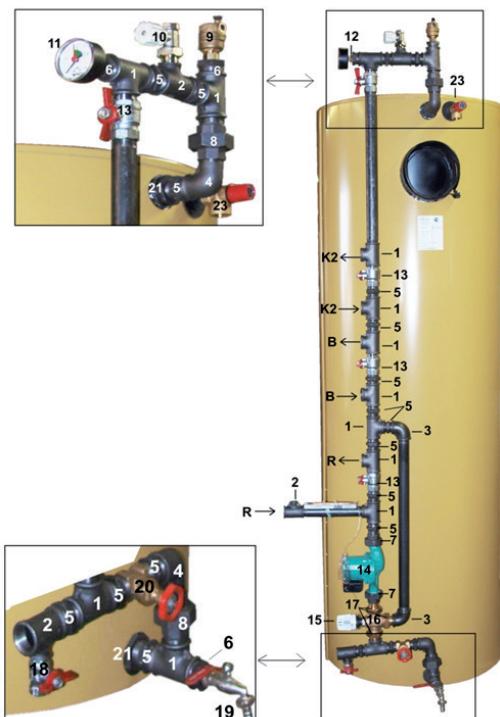


Figure 11

1. Triple D25	- 11 pcs.	14. Circulation pump	- 1 pcs.
2. Triple D25 x D15	- 3 pcs.	15. Thermostat head 20 - 50 °C	- 1 pcs.
3. Elbow D25 V/V	- 2 pcs.	16. Valve three directional for flow distribution	- 1 pcs.
4. Elbow D25 V/i	- 2 pcs.	17. Threaded tip DN2 25	- 3 pcs.
5. Nipple D25	- 15 pcs.	18. Valve for filling i/i 1/2"	- 1 pcs.
6. Adapter D25 x D15	- 3 pcs.	19. Valve for release 1/2"	- 1 pcs.
7. Circulation pump installation kit D25	- 1 pcs.	20. Disc valve made from brass V/V 1"	- 1 pcs.
8. Separable connection D25 V/i	- 2 pcs.	21. Adapter D32 x D25	- 2 pcs.
9. Automatic bleeding device	- 1 pcs.	23. Valve 1,5 bar	- 1 pcs.
10. Balance valve D25 V/i	- 1 pcs.	B - to/out of water tank	
11. Horizontal monometer 1/4"	- 1 pcs.	K2 - to/out of other boilers	
12. Adapter D15 x 1/4"	- 1 pcs.	R - to/out of radiator	
13. Ball valve V/i 1"	- 4 pcs.		

For boilers S7, S10, S20, S7 BIO, S10 BIO, S20 BIO and S10U, S20U, nodes are assembled from parts D20. For boilers S40, S40 BIO and S40U node is assembled from parts D25.

7. FIRING OF BOILER AND ADDING FUEL

7.1 FUEL IN BOILER BURNS MOST EFFICIENTLY WHEN COMBUSTION CHAMBER IF FULLY LOADED (figure 1)

"U" boiler has switching valve (6) (fig. 1), which, when burning coal, must be in such position as (fig. 12), when burning wood it should be lowered. Firewood boiler and "BIO" doesn't have such valve (6) (fig. 1). Air distributor with combustion chamber stabilizer (9) (fig. 1) must be raised while loading the fuel, in order to do this you should take the ring on the end of a cord (12) (fig. 1), which is hanging above the fuel loading doors, pull it down and hang it on the hook (13) (fig. 1). Wood should be stacked horizontally while putting longer pieces in the middle and shorter ones at the sides. Don't let vertical piece of wood get in middle. It is advisable to fill up remaining openings with sawdust and little wood residues.



Figure 12

Fire grate (19) (fig. 1) must be used when loading coal, briquettes, pellets. It is opened by lifting the switching valve for coal and peat (6) (fig. 1) and for cleaning ash and resin. Use pieces of coal. Pieces that are larger than half liter jar must be crushed. Don't mix any other fuel with coal, only add about 2 kg of dry fire wood chopped in small pieces. Boiler works at 50 – 70 % slower mode with fine coal, so you should use fine coal in warmer days. When loading peat, use large briquettes for almost whole load only put some fine pieces of peat at the end. After loading firewood, pellets and sawdust briquettes immediately ignite the fire – so that the load of fuel would not be ignited by leftover ember.

Before igniting the boiler carefully read the instruction of draft regulator (more information p.p 7.3.), check if spike of adjustment bolt is in its recess and if bump of support rod is in the right opening. Open the valve (1) (fig. 1) by 3-5 cm by turning adjustment bolt.

Ignite the very top of the load; close the door a little more, (8) (fig. 1) but leave 2-5 cm opening. Close the door (8) (fig.1) when fuel is burning and unhook the ring with lifting cord (12) (fig. 1) from the hook (13) (fig. 1). Combustion liquid designed for igniting furnaces and fireplaces can be used for igniting the fuel, but don't use it when boiler is already burning. Air must not go in trough bottom door dedicated for cleaning ash (11) (fig. 1).

When boiler is burning, window or special opening in an outer wall of boiler room must be open so that boiler could pull air from outside.

It is not allowed to keep adding fuel when using coal. When using firewood, pieces can be added to boiler together with larger wood residues at the time of burning: before doing that you must lift the air distributor with burning chamber stabilizer (9) (fig. 1) and open the doors (8) (fig. 1). When boiler is burning it is dangerous to instantly open the door wide (8) (fig. 1) – fire can burn your face. So at first, open the doors of fuel loading just 2-3 cm while looking and keeping away from boiler and after 20-30 sec normally open the doors (8) (fig. 1) and add firewood, but not more than two layers (20-30 cm), close the door (8) (fig. 1) lower the air distributor with combustion chamber stabilizer (9) (fig. 1).

After adding fuel, quality of burn and efficiency will decrease for short time, so such addition is recommended only to extend the time of fuel load burn till the next addition of firewood or next ignition.



When using pellets, saw dust briquettes, damp wood or other wood fuel or its residues, we recommend using air injection collector (fig. 2), and for enhanced stability of burn we recommend putting other fuel in between firewood layer in specific places. Air injection collector (fig. 2) is necessary when using pellets, sawdust briquettes, coal and peat. Any type of fuel must always be loaded through upper doors (8) (fig. 1).

When using calorific coal we recommend to leave air distributor with combustion chamber stabilizer (9) (fig. 1) in lifted position and when there is only half of the load left, let it rest on the fuel. This will increase the lifetime of air distributor with combustion chamber stabilizer (9) (fig. 1).

ATTENTION!

7.2 RECOMMENDATIONS FOR FIRING OF UNIVERSAL BOILER „STROPUVA”

Air valve that lets air flow under fire grate (19) (fig. 1) is controlled with help of switch valve (6) (fig. 1) on the top part of boiler on the same side as flue. Switch valve (6) (fig. 1) has: a) handle (bolt for fixing the primary position of valve) and b) steps for valve opening adjustment.

It is recommended to open bottom door (11) (fig. 1) after loading the coal and clean small pieces of coal from the bottom through the grate (19) (fig. 1). Also at the beginning you can load smaller pieces of firewood on fire grate (19) (fig. 1) so the small pieces of coal will not be able to fall down to the bottom. Load of coal must not be larger than up to the door for fuel loading (8) (fig. 1). Put firewood (about 2 kg) on top of coal and ignite it.

After ignition, switch valve (6) (fig. 1) must be lifted of the steps – so that switch valve (6) (fig. 1) would be closed and burning would proceed from the top. Depending on the type of fuel (various briquettes, soft and solid coal, damp firewood, pellets) quality burn will go on for 3 to 24 hours. After that (when power is lacking) switch valve (6) (fig. 1) must be set on the top step. After hour you should look at the smoke, if it is black and thick, keep gradually closing the switch valve (6) (fig. 1) by lowering the bolt every 5 minutes and watching flue. Smoke should be grey and clearly visible (after setting these parameters it can disappear). If smoke is white, lift the switch valve (6) (fig. 1) by one or two steps.

Memorize with which step the burn was best and use this step for switch valve (6) (fig. 1) for next firing of the boiler. But it is advisable to leave switch valve (6) (fig. 1) closed at the beginning and just after few hours, when temperature starts to decrease, put it the step you memorized before.

When using different fuel or coal of different kind, you'll need also to determine and memorize this step by using this method.

7.3 SETTINGS OF DRAFT REGULATOR (figure 13)

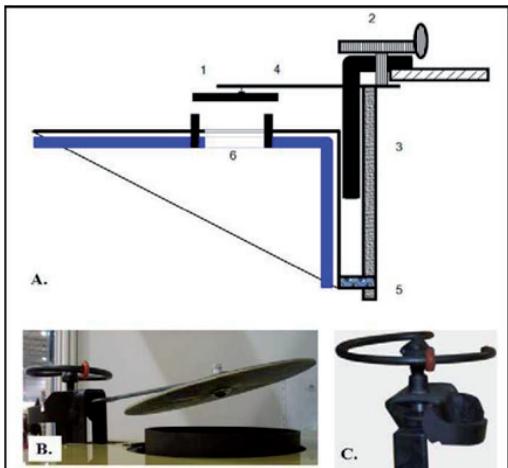


Figure 13

Operation of this regulator is based on the principle that while housing gets hotter and expands, valve (1) closes and when its housing is getting colder valve opens.

After bringing the boiler into boiler room and connecting it to the piping of heating system, check if parts of draft regulator are not deformed. Bump of its metal part (5) must be in the hole of valve lever and the spike of temperature adjustment bolt (2) must be in recess of lever. Recess and hole are close to each other – 3,5 cm apart. Check if valve completely seals the air vent (6) and if the bolt that holds the valve is loose, do not tighten it.

Set the valve 3-5 cm from air supply opening using supportive bolt and only

then ignite the boiler (fig. 13 B). When metal and water gets hotter cylinder becomes longer and lowers the valve. When indications of thermometer becomes stable under 80 °C, slightly open the valve by using temperature adjustment bolt (2) if temperature is higher than 80 °C – slightly close it till temperature falls under 80 °C. Later, if the temperature is too low, turn the adjustment bolt so that valve would be lifted, if temperature is too high, turn the bolt to opposite direction closing the valve. Also adjust the marking ring, so that you would know the position of valve (fig.13 C), for example: it is advisable to close the valve when removing ash. We want to remind you that boiler operation temperature must be 70 – 90 °C.

7.4 ASSESSMENT OF BOILER OPERATION

a) If after ignition, boiler works correctly, but later its power and draft decreases it means that flue is not sealed properly: check if door for flue cleaning is closed or if there are other openings, eliminate them.

b) If after ignition of fuel you hear rhythmic noise and occasionally see smoke coming out it means that flue draft is too strong – boiler is unable to attain its power and works very inefficiently: in this case you need to let in some air into flue through special opening on horizontal connection. Metal band flue ring must be pushed till the pulsation of boiler disappears (see fig. 6).

c) If fuel is burning well, but temperature increases very slowly and there is condensation leaking out of flue it means that the flow of heated water going through boiler is excessive: Set circulation pump to the bottom position and reduce the flow with help of boilers balance tap or reduce the flows in heating elements till there will be no more condensation leaks and thermometer will show 70 – 80 °C.



7.5 CLEANING AND MAINTENANCE OF BOILER

When using firewood you must remove the ashes every month. When using peat and coal, ash must be removed before each firing. Naturally some resin accumulates on insides of boiler, amount of resin increases when flue draft is incorrect; when air gets in through bottom or through bottom doors for ash removal (11) (fig. 1); when at the time of burning fuel is added constantly and air distributor with combustion chamber stabilizer is lifted; when flow of heated water is too high.

If draft has decreased, openings between air heating chamber (4) (fig. 1) and inner wall of boiler must be inspected and cleaned. They can be cleaned with flexible brush through inner smoke opening (5) (fig. 1) above fuel loading doors (8) (fig. 1). It is most convenient to clean through opening for smoke removal (5) (fig. 1) (after dismantling the connection with flue) or through special opening on the connection itself (fig. 6).

Boiler will not become clogged up if heating system is correctly installed, flue is well preserved and used according to instructions.

Air distributor with combustion chamber stabilizer (9) (fig. 1) can scoop some ash when it is lowered, so its openings sometimes need to be checked and cleaned.

Cord of lifting mechanism (12) (fig. 1) must be oiled so that it wouldn't wear and distributor with combustion chamber stabilizer (9) (fig. 1) would be lifted more easily. We recommend oiling the hooks for door closing.

Sometimes it needs to be checked if the doors seals uniformly. In order to make doors seal uniformly, gasket needs to be changed or tab of lock needs to be adjusted.

8. REQUIREMENTS OF SAFETY EQUIPMENT

Boiler room is a zone of increased hazard. Irresponsible behavior can lead to injuries, poisoning, fire, damage to boiler or heating system.

Safety requirements and warnings	Consequences for not adhering to the safety requirements and instructions
1. Don't let the water in boiler reach the boiling point. Do not fire the boiler when there is no water. Don't let the pressure of system exceed 1,5 bar. Don't let the water in the boiler or heating system freeze.	1. After water boils out, boiler will overheat and crack up. If temperature is rising in the boiler without known reason, immediately close the top air supply valve, lift the air distributor with combustion chamber stabilizer, set the water pump to maximum speed, open the door while keeping your face away and load sand, dirt or other inflammable material.
2. Ventilation of boiler room is necessary.	2. Boiler operates badly.
3. Do not allow air in trough bottom door and do not lignite the fuel from the bottom.	3. Condensation will leak, you will use up more wood. Water in boiler will start to boil and coal will fall out.
4. Do not store fuel in boiler (after loading the firewood it has to be ignited)	4. Firewood will ignite from leftover ember at the bottom and will burn out uselessly while leaving condensate and raisins.
5. While boiler is burning do not lift the air distributor with combustion chamber stabilizer	5. If you hit air distributor, which has softened from heat, against the firewood you will bend it and if it will stick deeper into fuel its lifespan will be reduced significantly.



<u>Most common mistakes of installation</u>	<u>Consequences</u> <u>Troubleshooting</u>
1. Installed using diagrams of other boiler manufacturers.	1. High flow cools the walls of combustion chamber and smoke opening enough for humidity to appear on them. When boiler is heated humidity disappears, but it makes the ash stick to the walls and therefore boiler and flue becomes clogged up periodically. Recommended flow must be achieved – moisture will accumulate at a lower point than center of combustion – smoke openings will stay clean.
2. Circulation pump, together with boiler, is installed in an old gravity circulation system, which has no element adjustment.	2. Large amounts of condensate are produced because of high flow of cold water, boiler room will acquire poisonous smell of condensate. Boiler works very inefficiently and it lacks power. Balance tap must be installed before boiler, or boiler room should be built according to diagram of example 8.
<u>Most common mistakes of operation</u>	<u>Consequences</u> <u>Troubleshooting</u>
1. Boiler is fired while flue draft is too high.	1. Pulsation can be heard in a boiler. Air valve sometimes jumps. Boiler operates very inefficiently, condensate is leaking and there is a lack of power. Extraneous air must be supplied through flue ring. If your boiler has no flue connection, you will only have to do "U" form cut in a sill and gradually unbend this newly created plate until the boiler starts working normally.
2. Lifting cord of air distributor and combustion chamber stabilizer is not oiled.	2. Air distributor and combustion chamber stabilizer is difficult to move, cord wears excessively. Must be lubricated using WD - 40.
3. Plastic materials of packing, cardboard boxes are burned in boiler.	3. Cardboard boxes obstructs the burn and burning of package leftovers is dangerous, because produced gasses can't burn quickly enough, and excessive gasses explode inside of chimney and damages the connections of flue.

9. RISK ASSESSMENT

9.1 DANGERS OF HEAT

Touching hot elements of boiler can cause burns. Surface of boiler, which heats up to 40 °C and other parts are thermally isolated as much as technical possibilities allow, but there are other parts as door handles which get even hotter and are dangerous to humans. Such places are marked with international sign of hazard. After hydraulic test, hot water pipes of heating system must be thermally insulated.



9.2 DANGERS OF PRESSURE

Pressure can get higher: in case of power loss when circulation pump stops working, boiler is not filled with cold water from heating system and temperature rises to the critical point, then draft regulator is turned on, it closes the valve at the selected temperature, therefore air is not supplied and boiler is extinguished. Water in boiler won't start boiling because firewood is extinguished fairly quickly as there is only one layer burning. If air inlet valve is damaged or because of other breaches of exploitation rules (for example, door for ash removal is left open) the water in boiler can start to boil. Therefore safety valve (fig. 7) of **1,5 bar** must be used; it is mounted at the top part of boiler near the flue (see 6.2; 6.3; 6.4 in connection diagrams).

According to figure 8 we recommend connecting gravity controlled radiator (radiator without thermos-valve). Hot water goes through balance tap (1) (fig. 8) to nearest radiator which can work in gravity circulation mode so that in case of power loss boiler would be protected from overheating.

(bk1) – pressure of safety balance tap of gravity circulation radiator must be such that return pipe of radiator would be 40 °C colder than supply pipe.

9.3 POSSIBLE POISONING

When flue is clogged up or while ashes are cleaned, carbon monoxide can accumulate in boiler room, therefore natural ventilation with air pull is needed, air inlet ventilation is needed for it to work – it can be opening or open window in outer wall of the building. If there is no inlet ventilation, boiler won't work. So don't forget about inlet ventilation on boiler room, this ventilation must be directly connected to the outside. Door of the boiler room must be shut tightly, so that when ventilations of compulsory connection nodes are turned on, work of the boiler wouldn't be interfered with and dust or carbon monoxide would not be able to get into living quarters.

9.4 REQUIREMENTS FOR CONNECTING ELECTRICAL PART

Circulation pumps that are used in the system use electric energy. They must be connected by a person with qualification of electrician and with permission for this job.

Possible effect of electric current on human being.

Electrical installation must be carried out according to governmental requirements.

10. ATTACHMENTS

Attachments for the boiler must be ordered separately.

10.1 ELECTRONICAL CONTROLLER

Electric controller – selects the most efficient operation mode and periodically slows down the work of boiler when premises accumulates enough warmth, but does it in delicate manner. When premises get cold, boiler is turned on again and premises accumulate warmth as if they were warmth accumulation tanks. User only needs to select the program that is suitable for type of fuel to be used and rest phase according to outside climate. Controller works with thermostat of the room. This device enables to burn one load of fuel longer, sometimes even twice longer.

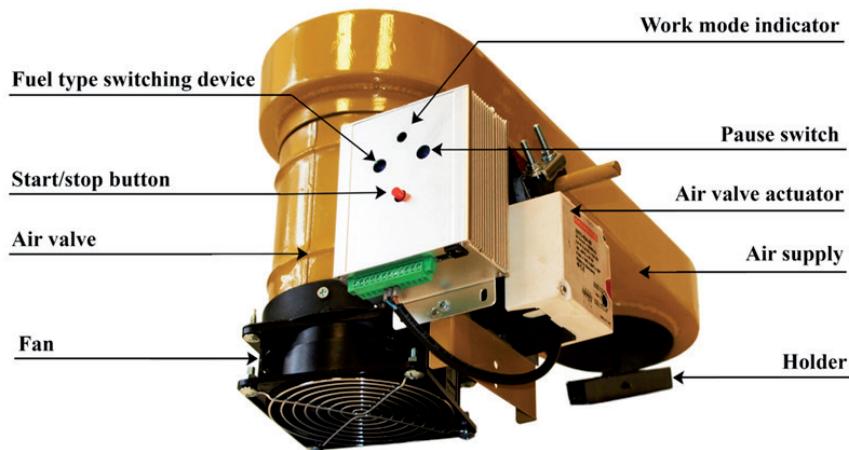


Figure 14

Switch of fuel type:
 0 – firewood
 1 – coal
 2 – peat briquettes
 3 – sawdust briquettes
 4 – sawdust pellets

Work mode indicator:
 Blue light – stop mode
 Blue blinking – burning out of ember
 Red light – primary cleaning
 Red blinking – pause
 Green light – ventilation before pause
 Green blinking – blowing at ember
 Red/green/blue – main control
 Blue/red – no electricity
 Red/green – 6 h pause
 Blue/green – sensor malfunction

Pause switch:
 0 – 10 min
 1 – 30 min
 2 – 60 min
 3 – 90 min
 4 – 120 min
 5 – 180 min
 6 – 240 min
 7 – 300 min

Connection scheme



Figure 15

10.2 PELLET BURNER

Pellet burner with all needed equipment can be connected to every solid fuel boiler "Stropuva". You won't have to buy new boiler, all it takes is to modernize old boiler "Stropuva". Boiler retains the ability to use firewood, briquettes and coal.

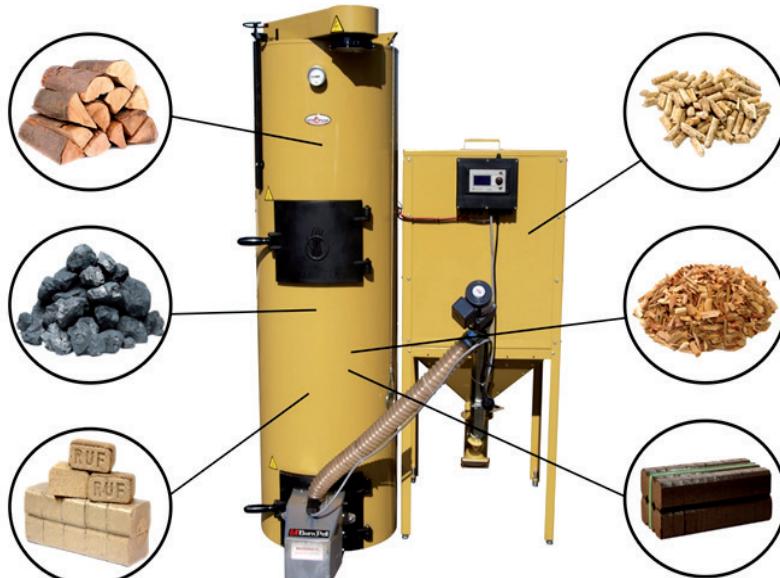


Figure 16

These are possibly **cheapest pellet boilers** which don't require maintenance and can alternatively use **any solid fuel** and assure long burning time!!!

Benefits:

- o **No need to move the boiler and repeatedly connect the chimney or heating system;**
- o Usually no need to make changes in heating system;
- o This solution allows **complete automatization of firing process** – automatic ignition of fuel, selection of work parameters, precise temperature control, remote control;
- o You will have **comfortable alternative – pellets**. No need to prepare this fuel. Removal of ashes needs to be carried out only one time in two weeks. Pellets completely burn in burners. **99% efficiency can be achieved;**
- o Boiler has large surface area of heat dissipation, heat exchanger and effective construction which can assure **maximum transfer of heat**.

Pellet burning time depends on:

- o Capacity of pellet hopper (you can choose the desired size of hopper)
- o Properties of pellets (dampness, calorific value)
- o Air temperature
- o Needed temperature of the house



11. PACKAGE CONTENT

PACKAGE CONTENT (of firewood boiler)

- Solid fuel boiler "STROPUVA" – 1 pcs.
- Safety pressure valve 1,5 bar – 1 pcs.
- Thermometer – 1 pcs.
- Flue ring – 1 pcs.
- Deflector – 2 pcs.
- Air distributor with combustion chamber stabilizer – 1 pcs.
- Technical passport – 1 pcs.

PACKAGE CONTENT ("U" – universal boiler)

- Solid fuel boiler "STROPUVA" – 1 pcs.
- Safety pressure valve 1,5 bar – 1 pcs.
- Thermometer – 1 pcs.
- Flue ring – 1 pcs.
- Deflector – 2 pcs.
- Air injection collector – 1 pcs.
- Air distributor with combustion chamber stabilizer – 2 pcs.
- Fire grate – 1 pcs.
- Technical passport – 1 pcs.

PACKAGE CONTENT ("BIO" boiler)

- Solid fuel boiler "STROPUVA" – 1 pcs.
- Safety pressure valve 1,5 bar – 1 pcs.
- Thermometer – 1 pcs.
- Flue ring – 1 pcs.
- Deflector – 2 pcs.
- Air injection collector – 1 pcs.
- Air distributor with combustion chamber stabilizer – 1 pcs.
- Fire grate – 1 pcs.
- Technical passport – 1 pcs.

We recommend purchasing backup generator for the cases of power outage.

12. WARANTY CONDITIONS OF PRODUCT

Manufacturer guarantees that this product meets the requirements of technical documentation.

During the warranty period manufacturer undertakes the responsibility to repair any malfunctions which arise because of manufacturers fault. Works of system adjustment, installation, cleaning of boiler, starting is not a part of warranty services.

By purchasing this product consumer undertakes the responsibility:

- To install the boiler and use it according the requirements of this manual;
- To carry out the prophylactic procedures, inspection of boiler and control elements at least one time in a year with help of specialists.
- To preserve warranty agreement and its entries.

Manufacturer cannot be held responsible for operation of boiler and consequences arising out of it, and is not providing warranty in such cases:

- Purchase document is not presented/ no fully filled out warranty agreement;
- Capacity of boiler does not correspond to the energy needs of building;
- Boiler is constructed without adherence to the requirements of this manual/ technical passport;
- Boiler is operated without adherence to the requirements of this manual/ technical passport;
- Boiler fails because of incorrect supply of electric energy and current fluctuations.



13. WARRANTY CERTIFICATE

MANUFACTURER:	UAB „Stropuva ir ko“, Company code 300149972 , Phone for general requests.: +370 525 51763 Service phone: +370 650 15994
Model of boiler:	
Product number:	
Date of sale / Signature / Stamp	
RETAILER :	
Date of sale / Signature / Stamp	
PERSON RESPONSIBLE FOR INSTALLATION:	
Installation address:	
Date/ Name Surname/ Signature / Stamp	
SPECIALIST performed the assessment of installed heating system and start of operation of boiler	
Notes	
Date/ Name Surname/ Signature / Stamp	

This boiler is given year warranty





DECLARATION OF PERFORMANCE / EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA

No. Nr. DOP 001

- 1. Unique identification code of the product-type /**
Produktu tipo unikalus identifikavimo kodas

S7; S10; S20; S40

Solid fuel boiler / Kieto kuro katilas

- 2. Intended use /**
Naudojimo skirtis:

Gasoline / Gaminys

Authorized representative /
Ilgalaikinis atstovas:

JSC "Stropuva ir ko" / UAB "Stropuva ir ko"

Darius ir Gireno g. 81, Vilnius m., Vilnius m., sav., LT-02189

System 4/ / Sistema 4

- 4. System of AVCP /**
Užtikrinančios sėkmingą pastovumo
vertinimo ir tūrimimo sistemos:

EN 303-5: EN 10204 - 3.1; EN 15614 - 1

- 5. Harmonised standard /**
Darojimo standartas:

EN 303-5: EN 10204 - 3.1; EN 15614 - 1

- 6. Notified body /**

Notified Body number : 1399

- 7. Declared performance/s /**

Deklaruojama (-os) eksploatacinių (-ų) savybių (-ės):

Essential characteristic/ Eksploatacinių savybė	Performance / Funkcinių rodiklių	Harmonised technical Specification / Darojimo techninė specifikacija
Pv (bar)	1.5	
Ts (°C)	95	
Temp (Fluid)	Vanduo 2 grupė (water 2 group)	EN 303-5: EN 10204 - 3.1; EN 15614 - 1
Volume (m³)	15, 22, 40, 52	
Prordo Nr. (Annex No.)	15/26-6	

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above. / Nurodyto produkto eksploatacinių savybių atitinkama visos deklaruotų eksploatacinių savybių. Si eksploatuojamas ypačiai deklaruoti patikimumo reikalavimais Reglamento (ES) Nr. 305/2011, atsižvelgiant į jas turint tenka iki joje nurodytų gamtinę.

Signed for and on behalf of the manufacturer by / Pasiūlyta (gamintojo ir jo surdai):

Valdas Strankauskas
name / vardas ir pavardė

2015 04 14



signature / parašas

date of issue / išduimo data



DECLARATION OF PERFORMANCE / EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA

No. Nr. DOP 002

- 1. Unique identification code of the product-type /**
Produktu tipo unikalus identifikavimo kodas:

S10BIO; S10BIO; S20BIO; S40BIO

Solid fuel boiler / Kieto kuro katilas

- 2. Intended use /**
Naudojimo skirtis:

Gasoline / Gaminys

Authorized representative /
Ilgalaikinis atstovas:

JSC "Stropuva ir ko" / UAB "Stropuva ir ko"

Darius ir Gireno g. 81, Vilnius m., Vilnius m., sav., LT-02189

System 4/ / Sistema 4

- 4. System of AVCP /**
Užtikrinančios sėkmingą pastovumo
vertinimo ir tūrimimo sistemos:

EN 303-5: EN 10204 - 3.1; EN 15614 - 1

- 5. Harmonised standard /**
Darojimo standartas:

EN 303-5: EN 10204 - 3.1; EN 15614 - 1

- 6. Notified body /**

Notified Body number : 1399

- 7. Declared performance/s /**

Deklaruojama (-os) eksploatacinių (-ų) savybių (-ės):

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Signed for and on behalf of the manufacturer by / Pasiūlyta (gamintojo ir jo surdai):

Valdas Strankauskas
name / vardas ir pavardė

2015 04 14



signature / parašas

date of issue / išduimo data

CE

DECLARATION OF PERFORMANCE / EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA

No. Nr. DOP 003

- 1. Unique identification code of the product-type /**
Produktu tipo unikalus identifikavimo kodas:

S7BIO; S10BIO; S20BIO; S40BIO

Solid fuel boiler / Kieto kuro katilas

- 2. Intended use /**
Naudojimo skirtis:

Gasoline / Gaminys

Authorized representative /
Ilgalaikinis atstovas:

JSC "Stropuva ir ko" / UAB "Stropuva ir ko"

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- 5. Harmonised standard /**
Darojimo standartas:

EN 303-5: EN 10204 - 3.1; EN 15614 - 1

- 6. Notified body /**

Notified Body number : 1399

- 7. Declared performance/s /**

Deklaruojama (-os) eksploatacinių (-ų) savybių (-ės):

Essential characteristic/ Eksploatacinių savybė	Performance / Funkcinių rodiklių	Harmonised technical Specification / Darojimo techninė specifikacija
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Valdas Strankauskas
name / vardas ir pavardė

2015 04 14



signature / parašas

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INSTALLATION, WARRANTY SERVICE phone. +370 650 15994

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